BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS OF ROADS AND DRAINS AT HAROHALLI VILLAGE IN WARD NO.02 OF YELAHANKA SUB-DIVISION

								Estimate Cost Rs.	25.00	Lakhs
Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)									
	for Road	Cum								
			1	20.00	6.70	0.30	40.20			
			1	50.00	5.20	0.20	52.00			
			1	18.00	5.00	0 25	22.50			
			1	8.40	4.50	0.20	7.56			
			1	124.00	3.00	0.30	111.60			
							233.86	166.42	**38918.98**
	Basic Rate	157.00							
	Area Weightage @ 6%	9.42							
	Total	**166.42**							
2	KSRB 2-2.1 : **Earth work excavation** for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No 5/Item No. 2.3)									
		Cum								
	for drain		1	125.00	0.95	1.10	130.63			
	for pipe line		1	125.00	0.60	0.75	56.25			
							186.88	200.34	**37438.54**
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	200.34							
3	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)									
		Cum								
				Qty Vide Item No.1+2			**420.74**	100.00	**42073.50**
	Average Weight of Earth 1.28									
	Basic Rate Lead Charges for	32.00								
	Add loading and unloading Item	68.00								
	Total	**100.00**								
4	Providing and fixing to wall, ceiling and floor, high density polyethylene pipes 6.00 kgs/sq.cm working pressure 75mm outside diameter raising mains & exposed distribution pipes with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost all material, labour charges, HOM of equipments and testing complete as per specifications.(P.N .94 I.N 13.73.3)									

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
		Rmtr							
			1	125.00			125.00		
							125.00	**425.06**	**53132.50**
	Basic Rate	401.00							
	Area Weightage @ 6%	24.06							
	Total	**425.06**							
5	Refilling available earth around pipelines, cables in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering lead upto 50m and lift upto 1.5m including cost of labour complete as per specification (P.No.6 I.No.2.11)								
		Cum							
			1	125.00	0.60	0.75	56.25		
							56.25	**80.56**	**4531.50**
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
6	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No KBS 4.1, 4.2 (P.12/I.4.3)								
		Cum							
	for road		1	20.00	6.70	0.15	20.10		
			1	50.00	5.20	0.15	39.00		
			1	18.00	5.00	0.15	13.50		
			1	8.40	4.50	0.15	5.67		
			1	124.00	3.00	0.15	55.80		
	for drain		1	125.00	0.95	0.15	17.81		
							151.88	**5159.02**	**783564.86**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
7	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -do- TMT Bars Fe 500 P.17/It.No.4.46.2								
		tonne	No.of Bars	Width/Longt	Rmtr	Kg/Rmtr	Total in Kg		
	12mm dia main bar spacing at 150mm c/c	1	833	2.10	1750.00	0.888	1554.00		
	10mm dia dist bar spacing at 150mm c/c	1	15	124.00	1860.00	0.617	1147.62		
						in Kg	2701.62		
						in Qtl	27.0162		
						in tonne	**2.7016**	**59413.00**	**160511.35**
	Basic Rate	56050.00							
	Area Weightage @ 6%	3363.00							
	Total	**59413.00**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
8	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc. and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31)								
		Sqm							
			2x2	124.00		0.60	297.60		
							297.60	310.58	**92428.61**
	Basic Rate	293.00							
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
9	Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal,coarseaggregated @ 0.69cum ,and fine aggregated @ 0.460cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 crns thick, vibrated for all works in foundation for footings,pedestals,retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts,struts, buttresses, bed blocks, anchor blocks, plinths etc.,including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications specifications No.KBS 4.1,4.6 (P.No.13/ I.No.4.11)								
		Cum							
	for drain wall		2	124.00	0.15	0.60	22.32		
	bed		1	124.00	0.95	0.15	17.67		
							39.99	6371.66	**254802.68**
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							
10	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
		Sqm							
	for Drain covering slab		1	124.00	0.90		111.60		
							111.60	2100.00	**234360.00**
	Data Rate	**2100.00**							
11	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete **(RMC)** M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc.,complete (exclusive of cost of steel and fabrication charges.) Page No.18 / Item No. 4.48)								
		Cum							
			1	20.00	6.70	0.125	16.75		
			1	50.00	5.20	0.125	32.50		
			1	18.00	5.00	0.125	11.25		
			1	8.40	4.50	0.125	4.73		
			1	124.00	3.00	0.125	46.50		
							111.73	6231.74	**696241.15**
	Basic Rate	5879.00							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
12	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift (P.177/ I.22.7)								
		Sqm							
			1	20.00	6.70		134.00		
			1	50.00	5.20		260.00		
			1	18.00	5.00		90.00		
			1	8.40	4.50		37.80		
			1	124.00	3.00		372.00		
							893.80	95.40	**85268.52**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
13	Providing Groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine generator and HOM of machinery including cost of blade, coolant etc., including cleaning aof groove & providing sand and hot bitumen fillars and filler metal etc.,including cost of conveyance of all materials, labour,lead and lift charges and all the other incidental charges as per drawing and as per specifications, MORTH specification. (P.178/ I.22.8)								
		m							
			3	6.70			20.10		
			6	5.20			31.20		
			3	5.00			15.00		
			1	4.50			4.50		
			20	3.00			60.00		
							130.80	121.90	**15944.52**
	Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	**121.90**							
14	Miscellaneous and unforeseen charges	LS							**783.29**
							Grand Total Amount		**2500000.00**

(Rupees Twenty Five Lakhs Only)

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.02

Executive Engineer
Yelahanka Division
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

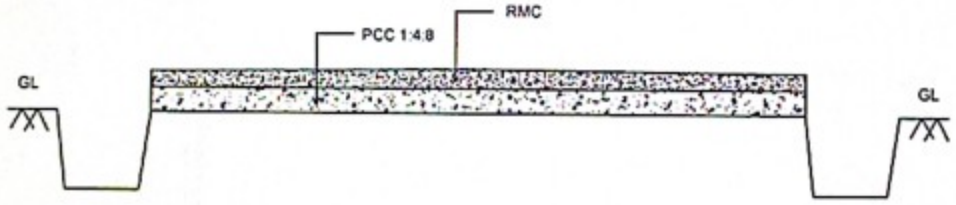
Administrative Approval
Accorded For ....25.00 lakh Rs
Head of A/C....P.177/1
CER NO :....183.... Dt...16.2.17

TA CE (YNK)

Technical Sanction
Accorded For ....25.00 lakh Rs
Head of A/C....P.177/1
CER NO :....136.... Dt:..16.2.17

TA CE (YNK).

NAME OF WORK : IMPROVEMENTS OF ROADS AND DRAINS AT HAROHALLI VILLAGE IN WARD NO.02 OF YELAHANKA SUB-DIVISION



TYPICAL CROSS SECTION OF CC ROAD

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

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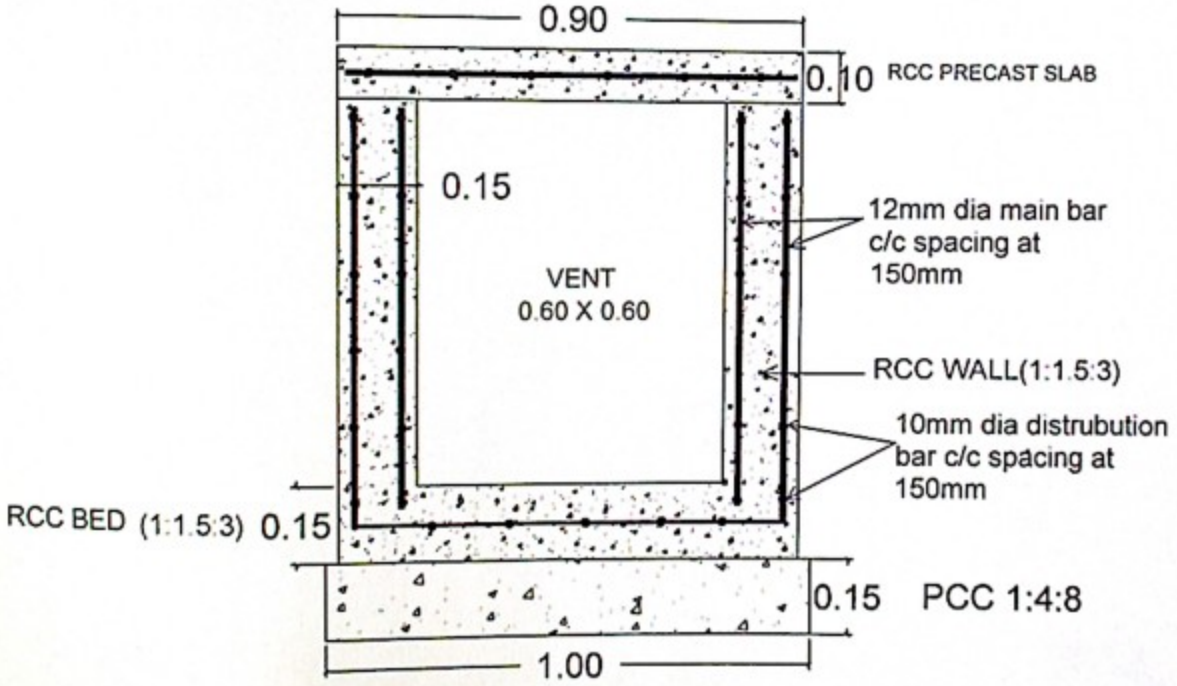
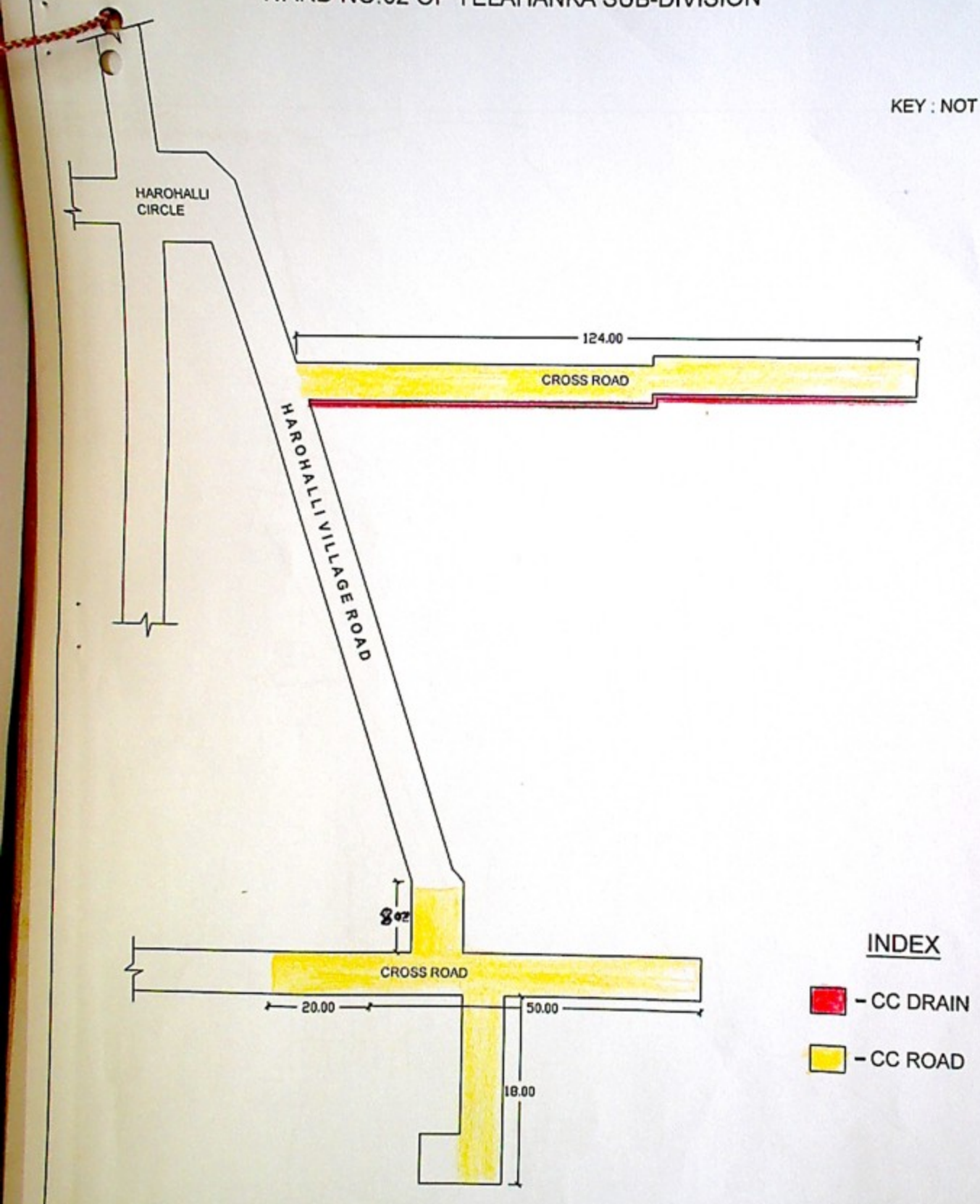


CROSS SECTION OF RCC DRAIN

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

NAME OF WORK : IMPROVEMENTS OF ROADS AND DRAINS AT HAROHALLI VILLAGE IN WARD NO.02 OF YELAHANKA SUB-DIVISION

KEY : NOT TO SCALE



Assistant Engineer
Ward No.02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P